

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT. $33^{\circ} 54' 22''$ N.

LONG. E. FROM GREENWICH $35^{\circ} 28' 10''$

December 1946

ROBERT W. SLOANE, DIRECTOR

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DECEMBER 1946

METEOROLOGICAL REGISTER

Date	Barometer reduced to 0°C Sea level and 45° Latitude 760 mm. + ...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	63.9	63.1	63.6	63.5	20.8	16.4	17.4	20.4	18.6	18.8
2	4.2	2.9	2.3	3.1	21.3	17.9	19.5	20.6	18.8	19.6
3	0.8	57.7	56.9	58.5	24.6	13.9	19.4	23.4	21.6	21.5
4	57.8	7.9	9.0	8.2	20.0	14.0	15.0	17.6	15.5	16.0
5	61.4	61.6	63.3	62.1	21.0	16.1	17.7	19.4	17.3	18.1
6	64.0	62.3	61.6	62.6	20.7	17.4	18.0	19.7	18.8	18.8
7	59.7	58.2	59.8	58.2	22.5	14.9	19.4	21.8	16.6	19.3
8	9.6	8.2	8.8	8.9	20.2	14.6	16.6	19.4	15.4	17.1
9	8.4	7.6	9.3	8.4	17.2	14.6	16.1	17.2	16.1	16.8
10	61.4	60.7	62.4	61.5	19.6	15.6	16.1	18.8	17.2	17.4
11	61.8	60.1	59.5	60.5	20.2	16.8	16.6	18.8	20.4	18.6
12	57.1	54.9	7.3	56.4	22.1	14.0	19.2	19.9	17.7	18.9
13	7.9	7.0	8.5	7.8	17.7	12.8	14.4	17.2	13.6	15.1
14	9.9	8.7	60.8	9.8	17.5	12.5	12.7	17.2	15.7	15.2
15	63.5	62.5	3.1	63.0	17.8	13.5	12.8	17.1	14.9	14.9
16	62.1	60.2	59.5	60.6	19.2	14.9	15.6	17.8	15.5	16.3
17	57.9	56.1	5.9	56.6	20.1	11.4	16.6	18.4	13.7	16.3
18	7.8	5.7	8.5	7.3	15.3	10.7	11.6	14.9	12.1	12.9
19	60.0	9.2	60.8	60.0	15.7	11.9	12.6	13.8	12.7	13.0
20	2.8	62.8	4.6	3.4	16.8	11.7	13.8	16.1	13.6	14.5
21	65.8	65.0	65.9	65.6	17.3	12.8	14.4	16.1	13.8	14.8
22	7.0	6.2	7.3	6.8	18.1	12.9	14.4	17.8	14.4	15.5
23	7.6	5.5	5.8	6.3	18.2	12.9	14.9	20.0	14.4	14.6
24	4.6	3.0	1.1	2.9	19.5	14.9	14.4	18.2	15.8	16.1
25	0.9	2.4	3.2	2.2	20.1	15.6	19.4	18.3	17.7	18.5
26	63.4	62.9	62.6	63.0	17.9	16.1	15.9	17.7	16.1	16.6
27	57.5	55.5	57.3	56.8	23.6	16.6	16.9	22.7	20.5	20.0
28	60.5	60.0	61.8	60.8	19.0	14.4	17.1	18.5	15.2	16.9
29	2.7	1.0	0.0	1.2	18.7	15.0	15.6	17.4	15.5	16.2
30	1.3	1.1	2.4	1.6	20.1	16.2	17.2	18.4	16.6	17.4
31	3.4	2.9	3.0	3.1	18.3	13.9	15.6	17.2	14.6	15.7
	61.50	60.41	61.15	60.99	19.35	14.41	16.30	18.44	16.14	16.87

Barometer, range for month 767.6 — 754.9 mm.

„ 71-yr. average for month 763.23 mm.

Thermometer, range for month 24.6° — 10.7°C

„ 71-yr. average for month 15.99 C.

Rain, total for month 175.78 m.m.

„ 71-yr. average for month 185.45 m.m.

„ Total, Sept. 1st. to end of month 247.91 mm.

„ 71-yr. average, Sept. 1st. to end of month 374.27 mm

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METEOROLOGICAL REGISTER

Date	Pressure of Water Vapor mm.				Relative Humidity per cent.				Sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	13.5	13.3	13.5	13.4	91	75	85	84	8.3	204.0	8.64
2	13.2	14.0	11.9	13.0	78	78	74	77	9.1	154.0	
3	10.0	8.5	16.2	11.6	60	40	84	61	9.0	750.0	
4	11.8	13.4	10.7	12.0	93	89	82	88	1.0	492.0	13.97
5	12.5	13.9	13.6	13.3	82	83	93	86	4.0	238.0	4.32
6	13.3	14.7	14.3	13.8	80	85	88	84	9.3	378.0	
7	9.7	11.1	11.5	10.8	57	56	82	65	8.1	435.0	0.51
8	11.7	13.2	9.6	11.5	84	79	73	79	8.2	885.0	3.30
9	9.3	10.7	9.7	9.9	69	73	72	71	4.0	998.0	0.51
10	11.9	12.7	11.4	12.0	88	79	78	82	6.0	290.0	
11	10.9	12.7	10.9	11.5	78	79	61	73	5.9	415.0	
12	7.9	13.5	10.1	10.5	48	78	67	64	1.1	398.0	
13	10.8	8.5	7.6	9.0	88	58	65	70	3.3	734.0	4.83
14	9.7	10.0	11.0	10.2	89	68	91	83	2.5	612.0	4.07
15	10.9	12.1	11.1	11.4	98	84	88	90	5.5	208.0	7.36
16	10.7	13.2	9.3	11.1	82	87	71	80	8.7	338.0	
17	8.8	10.6	11.2	10.2	63	68	95	75	5.9	724.0	11.18
18	9.8	11.0	9.8	10.2	94	87	93	91	0.6	604.0	73.15
19	10.2	11.4	9.5	10.4	94	94	81	92	0.4	401.0	28.19
20	10.5	10.4	10.3	10.4	89	77	90	85	4.6	393.0	6.35
21	9.3	10.5	9.7	9.8	76	78	83	79	9.0	418.0	
22	10.5	11.0	10.7	10.7	86	72	87	82	9.0	229.0	
23	9.6	11.7	10.4	10.6	76	80	85	80	8.5	314.0	
24	11.0	10.3	11.4	10.9	91	66	85	81	3.9	188.0	
25	9.7	12.5	13.4	11.9	57	78	89	75	0.1	444.0	
26	13.2	12.6	12.4	12.7	96	84	92	91	0.3	175.0	9.40
27	12.0	10.5	13.9	12.1	85	51	77	71	0.8	472.0	
28	12.0	12.0	7.7	10.6	83	76	60	73	8.6	303.0	
29	10.7	11.8	11.2	11.2	81	80	86	82	7.9	188.0	
30	12.8	12.1	10.8	11.9	88	77	77	81	4.4	367.0	
31	10.8	11.1	10.4	10.8	83	76	84	81	0.1	187.0	
	10.90	11.74	11.13	11.23	80.8	75.3	81.4	79.2	5.10	414.06	5.67

Height of Barometer above sea level: 33.7 meters.

" " Thermometers above ground:

Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m.

Rim of Rain Gauge: above ground 0.56 m.: above sea level 30.31 m.

Time of reading minus 2 hours equals G.C.T.

71 year averages are for period, 1875-1945

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METEOROLOGICAL REGISTER

Date	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10cu	1cu	1cu	4.0	1sw	1nw	1s	light	Sky, Hazy, a.m.
2	2cu	1cu	0	1.0	1s	0	1sw	"	
3	2ci	4cu	1cu	2.3	0	2e	1ne	slight	
4	8cu	10cu-ni	10ni	9.3	1se	2se	2sw	mod.	
5	4cu	10cu-ni	2cu	5.3	2sw	2sw	2sw	"	
6	0	0	0	0.0	1sw	1ne	0	slight	Tr., & w. at 9 a.m. Tr., a.m. Tr., p.m.
7	0	0	2cu	0.7	1se	2sw	2sw	"	
8	2cu-ni	4cu-ni	0	2.0	2sw	4sw	2sw	mod.	
9	4cu-ci	8cu	10ni	7.3	3w	3sw	3sw	"	
10	10ni	2ci	3cu	5.0	3w	1sw	3sw	slight	
11	8cu-ci	1ci	1cu	3.3	0	1sw	1sw	slight	Sky Hazy, A.m.
12	0	10cu	10cu	6.7	1se	1sw	1sw	"	
13	10cu-n	3cu-ni	0	4.3	2sw	4sw	1sw	mod.	
14	10ni	3cu-ni	8ni	7.0	1sw	3sw	2sw	"	
15	8ni	2ci	0	3.3	1sw	1sw	1sw	slight	
16	0	0	0	0.0	1se	1ne	1ne	slight	1st snow visible mts.
17	0	10cu-ni	10ni	6.7	1s	3sw	2sw	mod.	
18	9ni	10ni	10cu	8.7	1sw	3sw	1sw	"	
19	10ni	10ni	10ni	10.0	1se	1se	1se	"	
20	10cu-ni	8cu	2cu	6.7	1se	1se	1se	"	
21	3ci-cu	1ci	0	1.3	1nw	3ne	1ne	slight	
22	0	0	0	0.0	1se	1nw	1n	"	
23	0	3ci	0	1.0	1se	1sw	1n	light	
24	0	8ci	0	2.7	1se	0	1ne	"	
25	8ci	8ci	6ci	7.3	3sw	2sw	1sw	slight	
26	10cu-ni	6ni	10ci	8.7	1se	1sw	1sw	slight	
27	8ci	9ci	10ci	9.0	0	2sw	3sw	"	
28	0	1ci	0	0.3	1se	1sw	1sw	light	
29	0	0	0	0.0	1se	2ne	1ne	"	
30	3ci	9ci	5cu	5.7	1sw	1sw	3nw	"	
31	9ci	10ci	5ci	8.0	1se	1sw	1ne	"	
				4.39					

* Abbreviations: — G = gale; H = haze; M = mist; T = thunderstorm; D = dew.
W = strong wind; Tr = trace of rain

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	0	0	13	2	10	2	1	3	31
14:30	0	5	1	2	1	19	0	1	2	31
20:30	2	6	0	2	1	18	0	1	1	31
Mean	2	11	1	17	4	47	2	3	6	93

Number of days with rain 14, fog 0, thunderstorms 0, gale 0.

71 yr. av. number of days with rain during month 13.4

